

I-290 EB

Curve Data

Curve E I290 E-21
 P.I. Station 1065+93.25 N 1,897,690.6453 E 1,156,576.4518
 Delta = 2° 26' 47.35" (RT)
 Degree = 0° 46' 51.39"
 Tangent = 156.6608
 Length = 313.2739
 Radius = 7,336.7554
 External = 1.6724
 Long Chord = 313.2502
 Mid. Ord. = 1.6720
 P.C. Station 1064+36.59 N 1,897,665.3917 E 1,156,421.8398
 P.T. Station 1067+49.86 N 1,897,709.2761 E 1,156,732.0008
 C.C. N 1,890,424.5875 E 1,157,604.5206
 Back = N 80° 43' 24.52" E
 Ahead = N 83° 10' 11.87" E
 Chord Bear = N 81° 56' 48.20" E

Curve Data

Curve E I290 E-22
 P.I. Station 1071+59.08 N 1,897,760.3788 E 1,157,138.0223
 Delta = 6° 44' 12.01" (RT)
 Degree = 0° 49' 26.58"
 Tangent = 409.2248
 Length = 817.5065
 Radius = 6,952.9422
 External = 12.0323
 Long Chord = 817.0357
 Mid. Ord. = 12.0115
 P.C. Station 1067+49.86 N 1,897,709.2761 E 1,156,732.0008
 P.T. Station 1075+67.37 N 1,897,763.4997 E 1,157,547.2352
 C.C. N 1,890,810.7598 E 1,157,600.2618
 Back = N 82° 49' 34.90" E
 Ahead = N 89° 33' 46.91" E
 Chord Bear = N 86° 11' 40.90" E

Course from PT E I290 E-22 to 164 N 88° 40' 12.06" E Dist 285.4230

Point 164 N 1,897,770.1246 E 1,157,832.5813 Sta 1078+52.79

Course from 164 to 165 N 88° 40' 12.46" E Dist 1,073.1723

Point 165 N 1,897,795.0313 E 1,158,905.4645 Sta 1089+25.96

Course from 165 to 166 N 89° 12' 53.29" E Dist 152.9891

Point 166 N 1,897,797.1279 E 1,159,058.4393 Sta 1090+78.95

Course from 166 to 167 N 87° 44' 06.75" E Dist 67.2659

Point 167 N 1,897,799.7861 E 1,159,125.6526 Sta 1091+46.22

Course from 167 to 168 N 88° 45' 39.44" E Dist 178.2843

Point 168 N 1,897,803.6413 E 1,159,303.8951 Sta 1093+24.50

Course from 168 to 169 N 88° 40' 32.67" E Dist 1,115.3965

Point 169 N 1,897,829.4187 E 1,160,418.9938 Sta 1104+39.90

Course from 169 to 170 N 89° 03' 20.30" E Dist 757.1902

Point 170 N 1,897,841.8983 E 1,161,176.0811 Sta 1111+97.09

Course from 170 to 171 N 89° 03' 20.30" E Dist 657.3286

Point 171 N 1,897,852.7321 E 1,161,833.3204 Sta 1118+54.42

Course from 171 to 172 N 89° 03' 20.30" E Dist 1,262.4841

Point 172 N 1,897,873.5397 E 1,163,095.6330 Sta 1131+16.90

Course from 172 to 173 N 88° 26' 29.38" E Dist 985.3651

Point 173 N 1,897,900.3393 E 1,164,080.6336 Sta 1141+02.26

Course from 173 to PC E I290 E-23 N 88° 26' 30.72" E Dist 525.6716

I-290 EB

Curve Data

Curve E I290 E-23
 P.I. Station 1147+49.53 N 1,897,915.0377 E 1,164,727.7000
 Delta = 1° 14' 31.37" (RT)
 Degree = 0° 30' 38.78"
 Tangent = 121.5899
 Length = 243.1703
 Radius = 11,217.4620
 External = 0.6590
 Long Chord = 243.1655
 Mid. Ord. = 0.6589
 P.C. Station 1146+27.94 N 1,897,914.6330 E 1,164,606.1108
 P.T. Station 1148+71.11 N 1,897,912.8068 E 1,164,849.2695
 C.C. N 1,886,697.2331 E 1,164,643.4513
 Back = N 89° 48' 33.39" E
 Ahead = S 88° 56' 55.24" E
 Chord Bear = S 89° 34' 10.93" E

Course from PT E I290 E-23 to 174 S 89° 36' 37.35" E Dist 136.4192

Point 174 N 1,897,911.8791 E 1,164,985.6855 Sta 1150+07.53

Course from 174 to 175 N 88° 15' 32.23" E Dist 200.2435

Point 175 N 1,897,917.9630 E 1,165,185.8365 Sta 1152+07.77

Course from 175 to 176 N 88° 15' 24.23" E Dist 687.0926

Point 176 N 1,897,938.8651 E 1,165,872.6112 Sta 1158+94.86

Course from 176 to 177 N 88° 15' 24.23" E Dist 1,294.5024

Point 177 N 1,897,978.2453 E 1,167,166.5144 Sta 1171+89.36

Course from 177 to PC E I290 E-24 N 88° 15' 24.69" E Dist 361.5022

Curve Data

Curve E I290 E-24
 P.I. Station 1179+91.91 N 1,897,997.5676 E 1,167,968.8134
 Delta = 2° 35' 12.24" (RT)
 Degree = 0° 17' 35.89"
 Tangent = 441.0426
 Length = 881.9355
 Radius = 19,534.7475
 External = 4.9782
 Long Chord = 881.8606
 Mid. Ord. = 4.9769
 P.C. Station 1175+50.87 N 1,897,989.2418 E 1,167,527.8494
 P.T. Station 1184+32.80 N 1,897,985.9835 E 1,168,409.7039
 C.C. N 1,878,457.9753 E 1,167,896.6192
 Back = N 88° 55' 05.98" E
 Ahead = S 88° 29' 41.78" E
 Chord Bear = S 89° 47' 17.90" E

Course from PT E I290 E-24 to PC E I290 E-25 S 87° 48' 00.26" E Dist 90.5134

Curve Data

Curve E I290 E-25
 P.I. Station 1187+16.92 N 1,897,977.1566 E 1,168,693.6803
 Delta = 1° 38' 11.03" (RT)
 Degree = 0° 25' 21.52"
 Tangent = 193.6037
 Length = 387.1810
 Radius = 13,556.5203
 External = 1.3824
 Long Chord = 387.1679
 Mid. Ord. = 1.3822
 P.C. Station 1185+23.32 N 1,897,982.5090 E 1,168,500.1506
 P.T. Station 1189+10.50 N 1,897,966.2798 E 1,168,886.9782
 C.C. N 1,884,431.1704 E 1,168,125.3637
 Back = S 88° 24' 56.83" E
 Ahead = S 86° 46' 45.80" E
 Chord Bear = S 87° 35' 51.31" E

Course from PT E I290 E-25 to PC E I290 E-26 S 86° 25' 55.49" E Dist 599.3277

FILE NAME =	DESIGNED - CAG	REVISED -
...\\expln_abc_c3_290_ML_Data_exalign_16.dgn	DRAWN - DMS	REVISED -
USER NAME = sblenk	CHECKED - CAR	REVISED -
PLOT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

benesch

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN
 CURVE DATA**

SCALE: N.T.S. SHEET NO. 16 OF 33 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290 (I2828B,D, ETC., 3031, I1RS-6)		COOK	185	31
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60653	